

Material handling vehicle steering system.**Publication number:** DE69109453T**Publication date:** 1995-09-07**Inventor:** AVITAN ISAAC (US)**Applicant:** RAYMOND CORP (US)**Classification:****- international:** *B62D5/04; B62D7/02; B60K7/00; B62D5/04; B62D7/00; B60K7/00; (IPC1-7): B62D5/04; B60K7/00***- european:** B62D5/04F; B62D7/02**Application number:** DE19916009453T 19911212**Priority number(s):** US19900627106 19901213**Also published as:**

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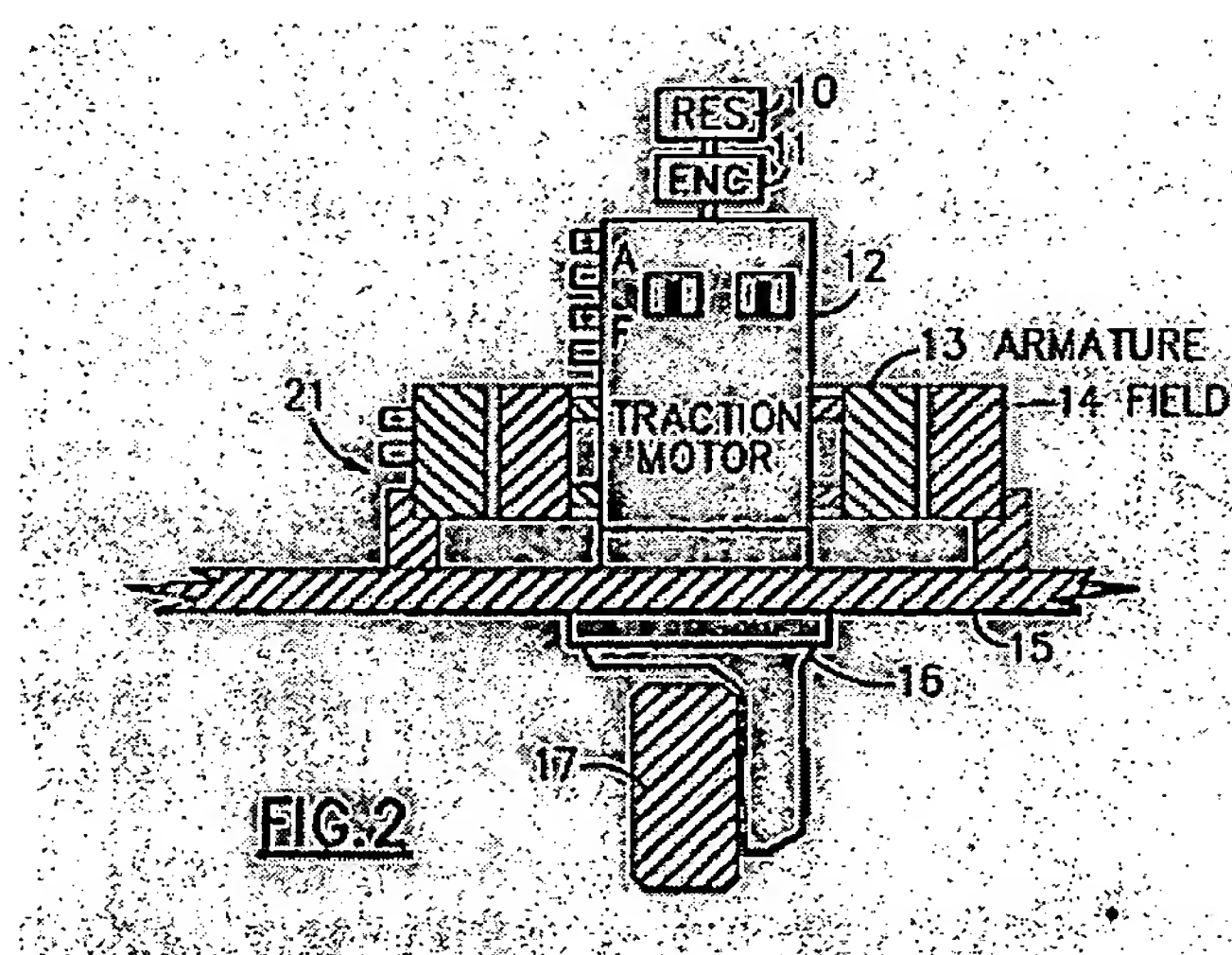
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A steer/drive control system for steering a material handling vehicle by directly coupled traction and steering motors is disclosed. The steering motor (21) is fabricated as a hollow shaft D.C motor, whose inner ring (13) represents the rotor, and whose outer ring (14) represents the stator which is connected to a frame (15) carrying the steering and drive wheel (17). The rotor is integrally connected to the traction motor (12) that drives the steering and drive wheel. A hand operated steering mechanism (45) rotationally guides the vehicle. A steering angle sensor (10) determines the difference between actual and desired heading of the steering and drive wheel. The steer/drive system utilises the sensed difference, and generates a signal for controlling the heading of the steering and drive wheel.



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